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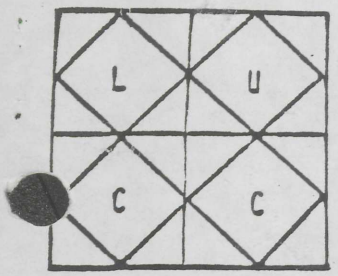


USER SERVICES EXTERNAL REPORT

LEHIGH UNIVERSITY COMPUTING CENTER
CDC CYBER 170 MODEL 730 (CM 256KW, NOS V2.2)
DECSYSTEM-2060 (1024KW MEMORY, TOPS-20 V5)
IBM 4361 (DOS/VSE, RELEASE 3.5)
Vol. XII, No. 3
November 1, 1984

COMPUTING CENTER DIRECTORY

Information About Policies and Plans

Office of the Director	
Director	861-3830
Dr. J. Gary Lutz	
Associate Director	861-3984
William R. Harris	
User Services	
Manager	861-3990
Timothy J. Foley	
Operations	
Manager	861-3989
Carol D. Rauch	

Information About Bills Received

Administrative Associate	861-3825
Joseph P. Holzer	
Annette L. Ruhe	

User Consultants

Blair R. Bernhardt	861-3994
Bob Kendi	861-3992
Monica A. Newman	861-3995
Kevin R. Weiner	861-3991

Information About Programs in the Computer Libraries

Software Librarian	861-3993
Judy K. Allio	

Systems Status, Technical Information

On-duty Consultant	861-4141

General User Information

User Services Secretary	861-3990
Florence E. Gabriel	

Information About Tapes and Supplies

Secretary/Tape Librarian	861-4140
Monica M. Morganello	

On-Campus Computer Access

CYBER 730	(110/300 Baud)	Ext. 4000
	(1200 Baud)	Ext. 4660
DEC 20	(110/300 Baud)	Ext. 4020
	(1200 Baud)	Ext. 4661

Off-Campus Computer Access

CYBER 730	(110/300 Baud)	691-5800
	(1200 Baud)	691-5806
DEC 20	(110/300 Baud)	868-2250
	(1200 Baud)	691-0506

FROM THE DIRECTOR

by J. Gary Lutz

In the last issue of USER, I cited three major issues with which LUCC will be concerned during this academic year: the move to the new E.W. Fairchild-Martindale Library & Computing Center, the implementation of the campus network, and the performance of the DEC 2060.

Regarding the move, things are still approximately on schedule. The date that the computers are scheduled to be moved, as well as other related details, can be found in the next article.

Regarding the network, an ad hoc Committee on University Computing has been appointed to address the question of what computing resources will be required to facilitate the effective use of the network, at least in the foreseeable future. This committee is being chaired by Ms. Sue Cady, of the University Libraries, and myself. Any questions, concerns, or other input you may have can be forwarded to either of us. The committee is charged with makirg recommendations by mid-November of this year.

Regarding the DEC 2060, LUCC has ordered a cache/pager upgrade to the CPU - making it, in effect, a DEC 2065. In addition, we will be replacing the current 1 megaword of memory with 2 megawords of faster MOS memory. It should be emphasized that, while these actions will no doubt improve the performance of the system, they will at best make its performance barely adequate if the usage last spring was any indication of the trend on this machine. We still need to examine very critically the services that are being provided by the DEC 2060, and consider the possibility that some of them may be best provided in other ways.

In a new area of activity, I am happy to report that, through a generous donation by Zenith Data Systems, LUCC has been able to open a microcomputer classroom consisting of 12 Zenith Z-150 microcomputers running MS-DOS. The classroom is temporarily located on the fourth floor of the new Fairchild-Martindale building, in the space which will eventually be occupied by the Vice Provost and his staff. The equipment will be moved to a permanent classroom when that room is finished. At that time,

we hope to be able to enhance the facility with a projection system, a local area network, and some other features. While use of this classroom can be reserved (with User Services), the room will normally serve as a publicly available microcomputer site. We are very excited about the use that the classroom is getting this semester through Dr. Ted Morgan of the Government Department, and hope that this will be the first of many such facilities across campus.

LUCC'S RELOCATION NEARS

LUCC will soon be relocating to the new E. W. Fairchild-Martindale Library & Computing Center. The CYBER and DEC 20 are scheduled to be moved on December 19th. In preparation for the move, permanent files will be dumped to magnetic tape on the evening of the 18th. Thus, LUCC currently plans to idle the DEC 20 at 4:00 P.M. on the 18th (to also allow four hours for DEC Field Service to do required testing), and the CYBER at 9:00 P.M. on that day. If everything proceeds smoothly, LUCC will have the systems up by Wednesday, December 26th. LUCC expects to have all communication lines functional by the 31st of December, and will be giving first priority to dial-up lines. The remote sites will be open as scheduled for that time of the year (although not all of their communication lines may be functional), as soon as at least one system is up. Whether the terminals in the Users' Area of the new building are available for use by December 26th is largely contingent upon the completion of the work carrels by that time. The current Packard Lab Users' Area will not be a LUCC computing site after the move; most of its equipment will be moved to the new Users' Area. A floor plan of the new Users' Area can be found near the end of this issue.

The IBM 4361 is scheduled to be moved on November 9th, and available to its users by November 12th.

LUCC will have offices and/or facilities on three floors of the new Fairchild-Martindale building. On the ground level will be the Director's office and the Business office. The (permanent) microcomputer classroom will be located on the floor below that. And, on the floor below that (the bottom floor of the building) will be located the mainframe computer room, Users' Area, faculty/staff workroom, special equipment room, and the offices of Operations, Systems Programming, User Services, and the software and tape Librarians. The entrance to all LUCC offices and central site facilities will be from the west (Bookstore) side of the building. All LUCC staff and computer telephone numbers will remain the same.

As implied above, LUCC's faculty/staff workroom will be relocating to Fairchild-Martindale. In the workroom will be a CIT-500 terminal hardwired to the DEC 20, a Visual 102 terminal hardwired to the CYBER, a NEC Spinwriter 7725 printing terminal with a 1200/300 baud modem, and a keypunch.

LUCC will move to the new building the (unboxed) input decks and printed and punched output from the front side (only) of the Input/Output rack, as well as the material in the plotted output rack. However, no input or output will be cycled from the front side of the I/O rack to the dead storage (rear) side beginning November 28th, when the contents of dead storage (except for boxed cards) will be discarded as scheduled. LUCC will <u>not</u> be moving to the new building <u>any</u> of the boxes of cards (of which there are currently nearly 225) on the I/O rack. All boxes should be retrieved by their owners before December 19th.

Note that, other than in rental lockers, there is no space for users to store boxes of cards at the new building. Locker space can be secured in advance by contacting Florence Gabriel of User Services at ext. 3990. Owners of the boxes of cards may want to consider storing the information on disk or tape. User Services can provide assistance with this task.

LISA AND MACINTOSH ARRIVE

LUCC has recently received its Lisa and Macintosh microcomputers from Apple Computer, Inc. For a demonstration of either of these micros, contact Blair Bernhardt of User Services at ext. 3994.

LUCC'S NEW MICROCOMPUTER CLASSROOM

As announced in "From the Director", LUCC now has a microcomputer classroom in which are housed 12 Zenith Z-150's (running MS-DOS) - a gift of Zenith Data Systems. The micros are currently located on the fourth floor of the new Fairchild-Martindale building, but will be moved to the permanent classroom when it is finished.

The classroom is open daily from 1:00 P.M. to 4:00 P.M., and Mondays through Thursdays from 7:00 P.M. to 10:00 P.M. A student consultant is scheduled to be available in the classroom at all of these times. Use of the classroom may be reserved, through User Services.

LUCC is soliciting suggestions from the Lehigh community as to what software should be acquired for these machines. Suggestions should be submitted via LUCC's Software Comment forms, which are available in the Packard Lab Users' Area. A Software Comment form will be sent upon request by contacting Florence Gabriel at ext. 3990.

PLATO LESSONS AVAILABLE

Four CDC 110 microcomputers have been added to the Packard Lab Users' Area, for the purpose of running PLATO lessons. PLATO is a system of computer-based education software from CDC. LUCC has the following PLATO lessons:

- Structured Programming with FORTRAN 77
- Physics 1
- Chemistry 1

PLATO lessons are available from CDC for a wide

range of topics. Faculty interested in having lessons available for their disciplines should contact Judy Allio of User Services at ext. 3993.

The PLATO software and documentation are kept in the Consultant's Office in the Packard Lab Users' Area. Brief instructions regarding how to run the PLATO software on the micros can be found on the top of the terminals.

DOCUMENTATION RELOCATED

Documentation which was formerly available (on one-day reserve) at the main desk in Mart can now be obtained at the circulation desk in the new Fairchild-Martindale library.

FROM THE LIBRARIAN

CYBER 730 - NEW SOFTWARE

ADINA - Finite Element Analysis Programs

ADINA is a computer program system for effective finite element analysis of structural, heat transfer and field problems. It provides a tool for linear and nonlinear, practical state-of-the-art analysis, and can be employed in many different engineering disciplines, such as civil, mechanical, aerospace, nuclear, offshore, automobile, geomechanical, and manufacturing. The ADINA system consists of the following major programs: ADINA, for displacement and stress analysis; ADINAT, for analysis of heat transfer and field problems; and ADINA-PLOT, for graphical and alpha-numerical display of program input and output data.

The ADINA program is for the static and dynamic displacement and stress analysis of solids, structures and fluid-structure systems. The program can be used to perform linear and nonlinear analysis. All input data required by the ADINA program can be prepared using the companion program, ADINA-IN. ADINA-IN is a pre-processor program designed for effective generation of input data to the ADINA program. ADINA-IN can be run in batch or interactive mode. The user input consists of commands, parameters and data lines, which define the ADINA variables and generate element meshes, nodal coordinates, and loads.

ADINAT can be used to analyze linear and nonlinear steady-state and transient heat transfer, with or without latent heat effects. It can also be used to analyze field problems, such as seepage, electrostatics, electromagnetics, and potential flow.

The ADINA-PLOT program, which should be available on the system in the near future, can plot the input to and output from the ADINA program.

Use of the ADINA programs is described in the following manuals, available in the Packard Lab Reference Area and on one-day reserve in the Fairchild-Martindale library:

ADINA User's Manual
ADINA-IN User's Manual
ADINAT User's Manual
ADINA-PLOT User's Manual
ADINA System Theory and Modeling Guide
ADINA System Verification Manual

ADINA programs are accessed and run by using the following control statements:

```
ATTACH,ADINA/UN=LIB.
ADINA.

ATTACH,ADINAT/UN=LIB.
ADINAT.

ATTACH,ADINAIN/UN=LIB.
ADINAIN.
```

BT, MT - Magnetic Tape Procedures

BT and MT are new, interactive CCL (CYBER Control Language) procedures which automate the complex task of using magnetic tapes. MT allows the assignment and manipulation of a single tape by an interactive job. BT generates a batch job file which can manipulate up to 3 tapes. These procedures prompt for all of the information needed to assign a tape, and then perform common tape operations selected via a menu. Explanations of the tape parameters or options may be obtained by typing a "?" to the prompt. These procedures can be run by typing either MT or BT at NOS command level. Additional information about the procedures can be obtained by typing "MT?" or "BT?" instead.

KERMIT - File Transfer Program (K50006)

An implementation of KERMIT has been installed on the CYBER. KERMIT is a file transfer protocol that allows diverse computer systems to send files over ordinary serial telecommunication lines, with error detection and re-transmission to ensure reliable transfer.

In order for the KERMIT protocol to be used, a KERMIT program must be running on each end of the communication line -- where at one end is usually a mainframe computer and at the other a microcomputer. KERMIT-730 is the name of the KERMIT implementation on the CYBER. KERMIT-730 must be run "remotely" from the other computer, and is called by typing "KERMIT" when you get the NOS prompt. KERMIT implementations for many microcomputers have been received, from Columbia University where KERMIT originated. Copies of the implementations for the IBM PC, the Zenith Z-100 and the Osborne can be obtained from Blair Bernhardt, 115 Packard Lab, ext.

3994, by supplying him with a 5 1/4" floppy disk. Implementations for other microcomputers would have to be downloaded in some fashion (from the DEC 20 where they reside) by the user to his or her microcomputer.

Use of KERMIT is described in the KERMIT User's Guide. A copy of this guide can be found under library number K50006 in the Packard Lab Reference Area. Copies may also be purchased at the University Bookstore. The implementation of KERMIT on the CYBER was adapted here at Lehigh, by Associate Professor Edwin Kay and graduate student Mark Miller, from a version obtained from Jim Knutson at the University of Texas at Austin. The following comments pertain to this new implementation of KERMIT:

- KERMIT-730 can send files of three different formats, and store files it receives in any of those formats. A non-standard, SET-able parameter FILMODE has been implemented to specify the file format, as follows:

  SET FILMODE format

  where format can be

CDC	for display code (the default)
HALFASC	for 6/12-bit ASCII (half-ASCII)
ASCII8	for 8-bit ASCII in 12 bits

- The parity of the two communicating KERMITs should be identical and set to MARK or ODD.

- On some rare occasions, a carriage return may be needed to continue a transfer. The symptom is that the transfer is "WAITING..." for a long period of time.

PROTRAN - Programs for Mathematical, Statistical, and Linear Programming Problems

PROTRAN is the name of a family of problem-solving programs available from IMSL, Inc. Members of the PROTRAN family are: STAT/PROTRAN, which consists of a set of procedures for solving statistical problems; MATH/PROTRAN, for solving mathematical problems; and LP/PROTRAN, for solving linear programming problems.

Features of the PROTRAN family include:

- Ease of use, as minimal knowledge of programming or computers is required to use any of the PROTRAN programs.

- Flexibility, as FORTRAN statements may be mixed with the PROTRAN statements.

- Error checking capabilities that automatically detect and pinpoint statement errors, and provide easy-to-understand diagnostic messages.

- Accuracy and dependability from the use of proven algorithms.

STAT/PROTRAN includes procedures for basic statistics, frequency tables and crosstabulation, correlation analysis, regression analysis, analysis of variance, and random number generation. STAT/PROTRAN input to perform a regression of a variable Y on four variables X1,...,X4 might look like this:

```
$     BUILDFILE EX
      READ X1, X2, X3, X4, Y
      DATA
 7     26      6      60      78.5
 1     29     15      52      74.3
11     56      8      20     104.3
11     31      8      47      87.6
 7     52      6      33      95.9
11     55      9      22     109.2
 3     71     17       6     102.7
 1     31     22      44      72.5
 2     54     18      22      93.1
21     47      4      26     115.9
 1     40     23      34      83.8
11     66      9      12     113.3
10     68      8      12     109.4
$     REGRESS (Y) ON (X1, X2, X3, X4)
      FILE EX
$     END
```

Included in MATH/PROTRAN are procedures for elementary operations and random number generation, interpolation and data smoothing, integration and differentiation, differential equations, linear algebraic equations, eigenvalues and eigenvectors, nonlinear equations, optimization, transforms, and sorting. A software science analysis of MATH/PROTRAN indicated that it reduces programming time an estimated 95 percent and the lines of code an estimated 90 percent, compared to FORTRAN programs written to accomplish the same results.

Designed for solving linear programming problems, LP/PROTRAN can be used for a wide variety of applications in such areas as operations research, econometrics, agricultural economics, statistics, management (scheduling and other problems), and manufacturing (blending and similar problems). A problem may be defined in a matrix/vector format, or by using variable names specific to the problem. LP/PROTRAN provides a particularly efficient representation for large problems involving "sparse" constraint matrices. The FORTRAN routines on which it is based use a sparse matrix representation of the coefficient matrix, and all matrix operations are designed to take advantage of the sparsity which generally characterizes large linear programming applications. The save-restart feature is extremely useful when a problem is to be solved repeatedly with slightly modified constraints or objective functions.

Use of the PROTRAN programs is described in the following manuals:

STAT/PROTRAN User's Manual
MATH/PROTRAN User's Manual
LP/PROTRAN User's Manual

These manuals are available in the Packard Lab Reference Area, and at the Fairchild-Martindale library (on one-day reserve). Another manual, entitled Numerical Methods, Software, and Analysis - IMSL Reference Edition, is available in the Consultant's Office in the Packard Lab Users' Area.

The NOS control statements necessary to access and run STAT/PROTRAN, MATH/PROTRAN or LP/PROTRAN are listed at the front of the binders containing the PROTRAN manuals.

CYBER 730 - MODIFIED SOFTWARE

BMDP - Biomedical Computer Programs P Series

The 1982 release of the BMDP software has recently been installed on the system. The files containing the 1981 release of the programs have been renamed, and can be accessed and run as follows until removed from the system on January 2nd, 1985:

```
ATTACH,BMDPcc=ØBMDPcc/UN=LIB.
BMDPcc.
```

where cc is the 2-character code of the program desired.

The BMDP programs provide a wide variety of analytical capabilities, ranging from plots and data description to advanced statistical techniques. The 1982 release contains two new programs and two new features. This release was compiled under FTN5; user-supplied subroutines should also be compiled under FTN5.

The new programs that are available are:

BMDP1T - Univariate and bivariate spectral analysis

BMDQ3M - Block clustering (by a method improved over that used in BMDP3M)

The BMDP1T program provides graphical displays and descriptive statistics for any single time series or pair of time series. This is done in several ways, ranging from plotting the data over time to estimating the spectral density. Information regarding the use of the BMDP1T program is included in the BMDP Statistical Software 1981 manual. This manual is available in the Packard Lab Reference Area, the Fairchild-Martindale library (on one-day reserve), and the University Bookstore. Information regarding the use of the BMDQ3M program is not included in the BMDP-1981 manual. Information about this program can be obtained by simply running the program, as follows:

```
ATTACH,BMDQ3M/UN=LIB.
BMDQ3M.
```

The two new features - FOR and INCLUDE - help to generate BMDP instructions. The "FOR" notation is used to generate several similar instructions from a single statement; the "INCLUDE" feature is used to incorporate BMDP instructions stored in a separate file into another group of instructions. Information about these new features is included in the supplement to the BMDP-1981 manual. This supplement largely describes the ways in which the programs as installed on CDC machines running under NOS differ from the descriptions in the manual. A copy of the manual supplement is attached to the BMDP-1981 manuals in the Packard Lab Reference Area, the Fairchild-Martindale library, and the University Bookstore.

BMDP-81 control language should work with BMDP-82 with the following exceptions:

- When creating lagged variables by the method described on page 706 of the BMDP-1981 manual, add the sentence "RETAIN." to the "/VARIABLE" paragraph.
- When using the CONSTANT sentence in the ARIMA paragraph in BMDP2T, only the form "CONSTANT = ." may be used. Do not use the form "CONSTANT."; this will not be processed correctly.

DEC 20 - MODIFIED SOFTWARE

IMSL - Mathematics/Statistics Library

The IMSL Library has been upgraded on the system from Edition 9.0 to 9.1. The IMSL library consists of over 500 mathematical and statistical subroutines which can be called from any FORTRAN program. Editions 9.0 and 9.1 differ only in that 9.1 was compiled under FORTRAN 77. No new subroutines have been added.

Documentation for the IMSL subroutines can be found in the IMSL Library reference manual which consists of four volumes. These volumes can be found in the orange cabinets in the Packard Lab Reference Area; they are also available on microfiche at the Fairchild-Martindale library. These volumes are the same as those used for the CYBER version of the IMSL Library.

Programs containing calls to IMSL routines are executed in the following manner:

```
EXECUTE filnam.FOR,SYS:IMSL/SEARCH
```

CONSULTANT'S CORNER

The answers to some questions recently asked of the consultants follow.

Q: I ran several batch jobs on the CYBER yesterday, and noticed that the account balance printed in the dayfile never changed from job to job. Might there be something wrong with your accounting program?

A: The balance reported in the dayfile is the dollar credit balance for the account of the user name, as of 12:02 A.M. on that day. The charging program runs once daily, at 12:01 A.M. The account balance is written to the dayfile in response to a BALANCE command which is automatically issued by the system at the end of a batch job. BALANCE can also be issued from an interactive job, and should be done so from NOS command mode. If issued from within Senator, the figure is sent only to the session's dayfile; information in the dayfile can be retrieved using the NOS DAYFILE command.

The batch job dayfile also reports the dollar execution cost of the job. This figure is included due to the COST command which is automatically issued by the system at the end of a batch job. COST can be issued at any time from a batch or interactive job to determine the execution cost of the job thus far; like BALANCE, COST should be issued from NOS command mode. Note that the cost reported does not reflect any print, punch, plot or connect charges for the job. COST and BALANCE are both LUCC-written commands.

Q: When I tried to save a large local file as a direct access permanent file, with a "DEFINE,lfn=pfn" command, the request aborted with a "DIRECT ACCESS DEVICE ERROR". I know that I have done this successfully before. What might have happened this time?

A: What happened was that your local file resided on the disk configured to hold local files only. There are currently five disks in use with the CYBER, only four of which may store permanent files. To avoid this problem in the future, first DEFINE a (empty) permanent file into which the data to be stored would then be written. For example, suppose your program writes to a file called DATAOUT and you want to store these data as a permanent file called RESULT1. You might issue the following sequence of NOS control statements:

```
FTN5.
DEFINE,DATAOUT=RESULT1.
LGO.
```

However, if you find yourself in a situation again where the local file already exists and the DEFINE command aborts, you would issue the following sequence of control statements to store the contents of the local file permanently:

```
DEFINE,RESULT1.
REWIND,DATAOUT.
COPY,DATAOUT,RESULT1.
```

Q: I am a DEC 20 user, and I understand that I can specify alternative characters for suspending and continuing output being sent to my terminal. How do I declare characters other than CTRL/S and CTRL/Q for this use?

A: You specify other characters for flow control by using the DEC 20 TERMINAL command, as follows:

```
TERMINAL PAUSE CHARACTER x y
```

where x and y are the characters for halting and continuing output, respectively. X and y can be specified in various ways:

```
TE PAU CH "h" "g"
```

would declare that the lower case characters h and g would be used to halt and continue output, respectively.

```
TE PAU CH CONTROL "h" CONTROL "g"
```

would declare that the characters CTRL/H and CTRL/G would be used to halt and continue output, respectively. (The word "CONTROL" would be typed out twice in the above TERMINAL command.) In this case, it does not matter whether the characters h and g are entered as upper or lower case to control output.

```
TE PAU CH SPACE SPACE
```

would specify that the space bar would be used for halting and continuing output. (When you specify the same character for both uses, you get a toggle effect.)

Such a command can be included in your LOGIN.CMD file. Note that in order for this TERMINAL command to be effective, "TERMINAL PAUSE COMMAND" and "TERMINAL PAUSE END-OF-PAGE" must be in effect. These two commands are automatically in effect whenever you declare your terminal type as TELEVIDEO, FOX or any other CRT-type terminal.

Note also that CTRL/S can still be used to suspend output even though you have declared an alternative character for this use, but then CTRL/Q must be used to continue the output. Also, CTRL/Q would only be effective after a CTRL/S (unless you explicitly declared the character for continuing output as CTRL/Q).

MINUTES OF THE COMPUTING CENTER ADVISORY COMMITTEE MEETING OF 9/28/84

The Computing Center Advisory Committee (CCAC) has been re-formed, and has recently met. Its membership consists of the following:

T.J. Delph, Chairperson
T.J. Foley, ex officio
R.A. Gruver
J.A. Hall
J.E. Hansz
B.R. Hargreaves
W.R. Harris, ex officio
S.P. Kantner, undergraduate representative
E.J. Kay
C.N. Kostem
J.G. Lutz, ex officio
J.M. Parks
E.S. Shapiro
J. Singh, graduate student representative

As was announced in a past issue of USER, there is no longer a Users' Subcommittee of the CCAC. Its duties have been incorporated into the new charge for the CCAC.

Minutes of the September 28th CCAC meeting follow.

Present: T.J. Delph, T.J. Foley, J.A. Hall, J.E. Hansz, W.R. Harris, S.P. Kantner, E.J. Kay, C.N. Kostem, J.G. Lutz

New Charge: Terry Delph distributed the charter for the new CCAC.

Move Update: Gary Lutz summarized the progress that had been made toward moving LUCC into its new facilities in the extended Mart Library.

Site Upgrades: Tim Foley summarized the changes that had been made to the public terminal sites, emphasizing the addition of the new microcomputer site temporarily housed on the fourth floor of the new library. This site will be moved into LUCC's classroom in the first basement of the new Center as soon as the facility is ready.

Networking Update: Gary Lutz reported on the activities of the Networking Advisory Committee and the University consultants.

CYBER 810 Grant: Gary Lutz reported that the University is currently in the process of responding to a RFP from NSF for the establishment of one or more Engineering Research Centers. At the same time, Lehigh has been invited to respond to a parallel RFP from CDC for a CYBER 810 system to go along with the ERC. Discussions are currently being held with the Dean of Engineering, the office of the VP for Research, and CDC to explore the possibility of applying the funds from the 810 grant to a larger system, e.g., a CYBER 845.

Proposed 85-86 Budget: A draft of the proposed 85-86 budget and the accompanying requests for new funds will be distributed to the CCAC at the next meeting.

Five-Year Plan: As LUCC begins its discussions of its five-year plan, the CCAC will be asked to consider whether it wishes to participate as a committee as a whole or appoint a subcommittee as in previous years. Ed Kay offered the initial suggestion that classrooms equipped with projection systems be included in the plan.

Microcomputer Update: Celal Kostem requested that an update regarding the Bookstore sales of microcomputers and related equipment be provided for the CCAC. Gary Lutz will follow up on this.

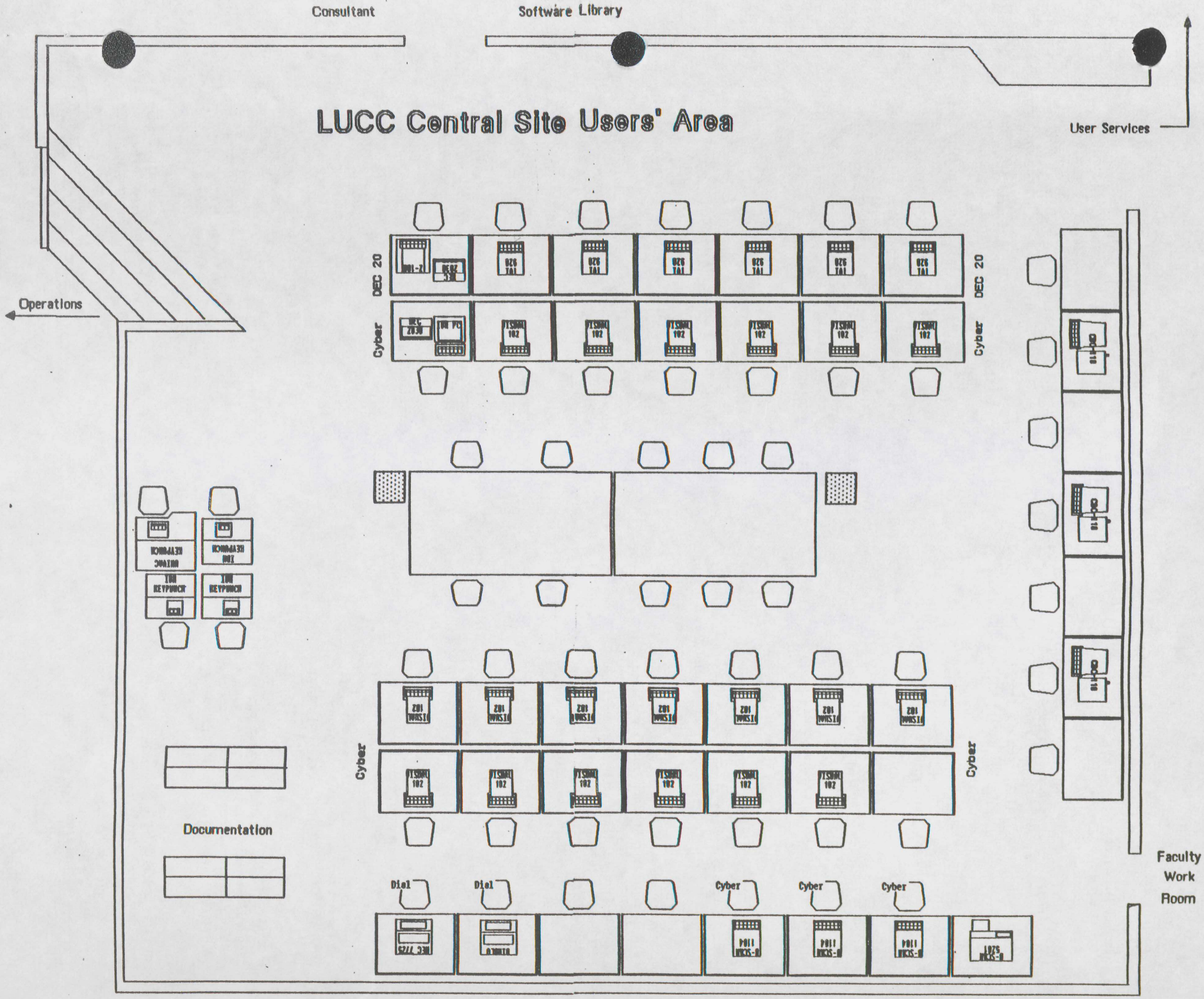
IRS Concerns: Jim Hansz inquired as to whether the University would be willing to provide, where appropriate, a letter stating that a given faculty member was required to purchase a microcomputer in conjunction with his or her responsibilities at the University. Gary Lutz will follow up on this.

Usage Policy and Usage Limits: Tim Foley distributed drafts of the revised Usage Policy and Usage Limits. Both of these documents will be discussed at the next meeting.

Software Rights: The committee requested copies of the new policy governing software rights that has been issued by the Office of Research. Gary Lutz will follow up on this.

Financial Report: Gary Lutz distributed the LUCC financial reports for June '84 (end of year report) and August '84 (current month).

Software Surcharge: Celal Kostem raised some questions regarding LUCC's ability to track software surcharges. Bill Harris responded that the new accounting system currently under development will provide that capability. Gary Lutz and Celal Kostem will confer regarding any further concerns.


Consultant
Software Library
LUCC Central Site Users' Area
User Services
Operations
DEC 20
Cyber
Documentation
Dial
Faculty
Work
Room

OPERATIONAL STATISTICS

CYBER 730

	8/84	9/84
Time System Available During Scheduled Hours (Percentage)		
Batch	100.0	100.0
Interactive	99.9	99.6
Mean Time Between Interruptions (Hours)		
Batch	365.9	387.0
Interactive	365.8	32.1

DECSYSTEM-20

	8/84	9/84
Time System Available During Scheduled Hours (Percentage)	99.8	99.9
Mean Time Between Interruptions (Hours)	73.5	391.4

USAGE STATISTICS

CYBER 730

	8/84	9/84
BATCH -		
Jobs Processed	10,506	10,657
INTERACTIVE -		
Terminal Sessions	8,747	22,594
Terminal Connect Hours	4,442	11,856
CPU Hours - Batch	154.1	137.5
- Interactive	40.6	75.6

DECSYSTEM-20

	8/84	9/84
Terminal Sessions	12,063	21,237
Terminal Connect Hours	5,446	7,955
CPU Hours - All Jobs	162.0	150.8

USER SERVICES EXTERNAL REPORT

MAILING LIST

____ADD my name to the mailing list

____DELETE my name (include mailing label or complete address)

____CHANGE my address (list both old and new addresses and include Zip Code)

CAMPUS

NAME:_____

DEPT.:_____

BLDG.:_____ ROOM:_____

OFF-CAMPUS

NAME:_____

ADDRESS:_____

_____

_____ZIP CODE:_____

RETURN TO: Lehigh University
Computing Center
RM. 115 Packard Lab, Bldg. 19
Bethlehem, PA 18015